

STEPHEN G. SHARRO
Federal Emergency Management Agency

Stephen Sharro is Deputy Director of FEMA's Training Division and Deputy Superintendent of the Emergency Management Institute. Mr. Sharro also serves as senior policy advisor on terrorism and as chief of staff of FEMA's National Emergency Response Team (RED).

Before coming to FEMA in 1990, Mr. Sharro worked for the Department of Defense serving in Southeast Asia, Europe, Washington, D.C., and at stateside Army installations.

Mr. Sharro's work with DOD included leadership positions in education, training and information management including a final assignment as Deputy and Acting Director of Education for the U.S. Army in Europe.

Since joining FEMA, in addition to his training responsibilities, Mr. Sharro has participated in the Federal response to many major disasters including Hurricane Andrew, the Northridge Earthquake, the Great Midwest Floods, and Hurricanes Marilyn and Fran. Mr. Sharro has also worked extensively in the area of anti-terrorism serving as acting director of FEMA's Terrorism Coordination Unit.

Mr. Sharro holds degrees from Indiana University of Pennsylvania and the University of Southern California and is a graduate of the U.S. Army War College and the Federal Executive Institute. He has done additional graduate work at the University of Virginia, George Washington University, and the American University.

Mr. Sharro resides with his wife Alexandra Furr in Gettysburg, Pennsylvania.

BIOGRAPHICAL SKETCH

PAULA COWEN, D.V.M.

Paula grew up primarily in Colorado. She then attended California State Polytechnic University in Pomona, California for 3 years. She returned to Colorado to complete her undergraduate studies and attend veterinary school. Paula graduated in 1985. Upon graduation she and her veterinarian husband bought a rural mixed animal practice in northeastern Colorado based out of Platteville, where she worked for 10 years.

Paula has been working for APHIS as a Veterinary Educational Specialist since February, 1995 with Organizational and Professional Development (OPD) at the Centers for Epidemiology and Animal Health (CEAH) in Fort Collins, Colorado. Paulas primary responsibility is Emergency Preparedness training which includes Emergency Management/Foreign Animal Disease Training and International Trade Issues. In addition she does facilitation and other soft skills training for all of APHIS. This work is a wonderful and exciting opportunity for her. Paula has been a wheeling veterinarian since 1987 as a result of an accident on a 3 wheel all terrain vehicle that broke her back and crushed her spinal cord.

Paula lives on a farm east of Fort Collins with John Belfrage, D.V.M., her husband and an Epidemiologist at CEAH. She has 3 young sons Brice, 10, Seth, 6, and Sean three years old.

CURRICULUM VITAE

May 11, 1999

David S. Rolfe MAJ, VC
HQ, VETCOM
ATTN: MCVS-PM
2050 Worth Road, STE 5
Fort Sam Houston, TX 78234

Office: DSN 471-8702
(210) 221-8702

Military Assignments:

Current: Chief, Animal Medicine Division, HQ VETCOM
FSH, TX
October 1997 - Present

Duties: MWD and VTF issues and policies
Animal Medical Care Consultant
Specialty Response Teams
Human-Animal Bond

Former:

Chief, Internal Medicine and Outpatient
Clinics, DoDMWDVS, Lackland AFB, TX
Aug 1995-October 1997

Commander, 129th Medical Detachment(VM).
Yongsan, Korea APO (AP) 96205-0680
July 1994- July 1995

Officer-in Charge, Mobile Service Team C
110th Medical Detachment, Germany
December 1987 - May 1991

Officer-in Charge, Castle Branch
Castle AFB, California
September 1986 - June 1987

Personal:

Date & Place of Birth: March 4, 1959 Champaign, Illinois

Family:

Wife: Brenda Sue Married since May 1984

Children:

Laura Ashleigh	19 Jan 88
Lindsey Claire	31 May 89
Eric David	8 Oct 91
Levi Daniel	25 Apr 97
Ian Matthew	27 Feb 99

David S. Rolfe MAJ, VC

Education:

Civilian:

Undergraduate: BS, Biology May 1982
University of Kansas
Lawrence, Kansas

Graduate: MS, Clinical Sciences August 1994
Colorado State University
Ft. Collins, Colorado

Professional: DVM May 1986
Kansas State University
College of Veterinary Medicine
Manhattan, Kansas

Residency: Internal Medicine June 1994
Colorado State University
College of Veterinary Medicine and Biomedical Sciences
Ft. Collins, Colorado

Board Certified in Internal Medicine July 1995

Military:

AMEDD Officer Basic Course	July	1986
Veterinary Corps Officer Basic	September	1986
AMEDD Officer Advanced Course	November	1987
Combat Casualty Care Course	November	1987
Combined Arms Services Staff- Phase I		1990
Command and General Staff College	April	1997
Faculty Development Course	April	1998
USDA Foreign Animal Disease Crs	June	1998

Memberships: American Veterinary Medical Association
Society of Phi Zeta
Canine Comparative Gastroenterology Society
American College of Veterinary Internal Medicine

Honors and Awards: Defense Meritorious Service Medal
Meritorious Service Medal (1st OLC)
Army Commendation Medal (1st OLC)
Army Achievement Medal
Expert Field Medical Badge

Licensure: Kansas
Colorado

Tolani I. Francisco, D.V.M.
11809 Canyonlands PL, SE
Albuquerque, NM 87123

Personal Information

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Country of Citizenship: United States
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Home Phone Number: (505)271-2623
Work Phone Number: (505) 761-3160
FAX Number: (505) 761-3176

Education

8/86-5/90 Kansas State University, Manhattan, KS, DVM
8/83-5/86 New Mexico State University (Biology)
8/79-5/83 Laguna Acoma High School

Professional Training

2/98 Wildlife Handling Techniques, Socorro, NM
8/97 FAD's & Veterinary Epidemiology, Ft. Collins, CO
7/97 Tuberculin Testing Procedures in Llamas & Alpacas, Carson City, NV
4/97 FAD Seminar via Satellite, Albuquerque, NM
8/96 Statement & Affidavit Training, Albuquerque, NM
8/96 Wildlife Seminar for FAD Preparedness, Athens, GA
5/96 FAD Seminar via Satellite, Albuquerque, NM
4/95 Tuberculosis Epidemiology Training Course, Ames, IA
5/94 FAD Diagnosticians Training Course, Ames, IA & Plumb Island, NY
2/93 Basic Veterinary Epidemiology I, Ft. Collins, CO
10/92-5/93 PVPC Training Course, Helena, MT

Licenses and Board Certifications

783, Nevada, expired December 1994
1797, New Mexico, expires May 2000

Work/Volunteer Experience

5/93-Current Veterinary Medical Officer: Field activities in disease eradication
and prevention and program activities in NM
Albuquerque, NM

1/99 -Alpaca Importation from Peru: Worked with importing veterinarian on
monitoring health status of animals, performed a C-section on one
alpaca.

Harry S. Truman Animal Importation Center, Key West, FL.

3/99-Acting AVIC: Interim Area Veterinarian In Charge for 30 days, supervised four VMO's, two AHT's, and office staff. Worked on Y2K compliance plan.
Baton Rouge, LA

3/97-Trainer for PVPC course: Worked with PVPC class for a week on training in TB testing procedures and FAD investigations.
Ames, IA

4/96-10/97 Volunteer with Animal Alliance Spay/Neuter Clinics: On weekends, Performed sterilization procedures and general examinations on small animals presented to clinics from residents of the reservations, worked on 7 reservations in NM and CO

10/92-5/92 PVPC Veterinary Medical Officer: Studied and performed agency programs and duties as a field VMO under the supervision of a mentor
Helena, MT

7/90-5/92 Associate Veterinarian: Practiced medicine and surgery in a mixed animal practice, with emphasis on equine and large exotics, both ambulatory and clinic duties, emergency duties divided between two doctors
Bonde Lane Animal Hospital, Reno, NV

Honors/Awards/Activities

6/99 Volunteered with Navajo Nation & Jacksonville Jaguars NFL team, Leadership camp for students (Kayenta, AZ)
5/99 Certificate of Merit, Western Regional Exercise Challenge, Arlington, TX
2/99 Certificate of Merit, Western Regional Civil Rights EEO Committee, Englewood, CO
8/98 Certificate of Participation, Harmony Workshop Presentation, NRCS, Mescalero, NM
6/98 Volunteered with Navajo Nation & National Football Players Association with the Jacksonville Jaguars, "No Fear, Campaign against Drugs on the Reservation Football Camp" (Distance Runner)
4/98 Certificate of Appreciation, Acting AVIC, Albuquerque, NM
3/98 Certificate of Appreciation, South Carolina Work Conference Presentation, Columbia, SC
1/98 Certificate of Appreciation, Celebration of Health Careers Conference, Native American Conference Presentation, NMSU, Farmington, NM

CURRICULUM VITAE

NAME: John Charles Morrill

**DATE AND PLACE
OF BIRTH:** 19 March 1946
Albert Lea, Minnesota

MILITARY:

Rank: LTC, U.S. Army

Branch: Veterinary Corps

Specialty: Virology

Yrs. of Service: 8 years U.S. Army Reserves
25 years active duty Regular Army

HOME ADDRESS: 205 FM 107
Gatesville, Texas 76528
Telephone: (254) 248-1646

BUSINESS ADDRESS: Chief, Diagnostics Section
DoD Veterinary Laboratory
Attn: MCVS SCL
2472 Schofield Rd. Bldg. 2632
Ft. Sam Houston, Texas 78234-6232
Telephone: 210-916-7904

DEPENDENTS: Wife - Diane
Children - Heather and Scott

EDUCATION:

1964-1968	Texas A&M University, College Station, Texas, College of Science, B.S., Animal Science
1968-1971	Texas A&M University, College Station, Texas, College of Veterinary Medicine, D.V.M.
1980-1983	Texas A&M University, College Station, Texas, College of Veterinary Medicine, Ph.D., Veterinary Microbiology

PROFESSIONAL EXPERIENCE:

1995-Present

Chief, Diagnostics Section
DoD Veterinary Laboratory
Attn: MCVS SCL
2472 Schofield Rd. Bldg. 2632
Ft. Sam Houston, Texas 78234-6232

Serves as Deputy Laboratory Director and Chief, Diagnostics Section, supervising 5 civilian laboratory supervisors and technicians. Responsible for diagnostic and serologic assays for zoonotic diseases to include rabies, Q-fever, brucellosis, leptospirosis, and toxoplasmosis. Assays are also performed for the detection of antibodies to babesia, ehrlichia, equine infectious anemia, rocky mountain spotted fever, bluetongue virus, Borrelia, and typhus. Performs fluorescent antibody virus neutralization test (FAVN) in support of Hawaii's modified rabies quarantine program. Responsible for the implementation of molecular biologic techniques, where practical and applicable, to enhance diagnostic capabilities. Implemented electronic data capture to increase efficiency of data handling and security. Serves as a consultant to the Military Working Dog Medical Records and Gulf War Projects. Advisor to Operation Baker Lifeline in support of the U.S. Army PACOM's Expanding Relations Program with the PDR Laos. Foreign Animal Disease Diagnostician (FADD).

1992-1995

Chief, Applied Research Division
U.S. Army Medical Research Institute of Infectious
Diseases
Fort Detrick, Frederick, Maryland 21702-5011

Served as Chief of a medical research division composed of 64 civilian and military professional, technical, and support staff assigned to five branches (Rapid Diagnosis, Preventive Medicine, Epidemiology, Aerobiology, and Clinical Immunology), with an annual budget of \$2.6 million. Implemented the Biological Defense Research Program by developing field deployable rapid diagnosis tests, determining aerosol transmission characteristics of threat agents, defining risk of endemic diseases, and developing vaccination strategies. Successfully applied

remote sensing and Geographical Information Systems (GIS) to field investigations of viral disease outbreaks in Florida and eastern Africa. Directed investigations, managed budget, supervised and evaluated senior staff, allocated resources, reported progress, and served as a technical expert for the United States Army Medical Research and Development Command. Served as WHO Consultant to Eastern Mediterranean Regional Office on Rift Valley fever during the RVF outbreak in Egypt in 1993. Member of WHO Working Group on Rift Valley fever virus.

1988-1992

Department of Pathogenesis and Immunology,
Disease Assessment Division
U.S. Army Medical Research Institute of Infectious
Diseases
Fort Detrick, Frederick, Maryland 21702-5011

Served as research virologist responsible for development and testing of vaccines against high hazard viral agents of military relevance. Responsible for all preclinical testing of a mutagen-attenuated Rift Valley fever vaccine for use in humans. Wrote and assembled investigational new drug application (IND) which was approved and allowed Phase I/II clinical testing of the mutagen-attenuated Rift Valley fever vaccine. Conducted epidemiologic studies on Marburg virus outbreak in western Kenya. Conducted virologic and serologic surveys of bats, wild rodents and birds which included trapping or mist netting, identifying, and collecting blood and selected tissues.

1986-1988

Head, Virology Department,
U.S. Naval Medical Research Unit #3,
Cairo, Egypt

Served as Head of Virology Department which consisted of two other senior American scientists, three senior and four junior Egyptian scientists, and a technical staff of eight Egyptian Nationals and one Navy corpsman. Responsible for country-wide epidemiologic studies on HIV and arboviral infections in Egypt. Conducted virologic and serologic surveillance for arboviral and rickettsial agents in Egypt, Sudan, Somalia, Djibouti, and Kenya. Studies involved trapping, netting, identifying, data

recording, bleeding, and collecting tissues from birds and wild mammals. Conducted annual week-long training seminar on HIV diagnostics for northeastern African nations. While under my direction the Virology Laboratory was recognized by the Egyptian Ministry of Health for its outstanding contributions to medical research and by the World Health Organization as a "WHO Reference Center for HIV" in the Middle East region.

1983-1986

Department of Pathogenesis and Immunology
Disease Assessment Division
U. S. Army Medical Research Institute of Infectious
Diseases
Fort Detrick, Frederick, Maryland 21701

Planned, organized, and conducted studies on the epidemiology, pathogenesis, prophylaxis, and treatment of Rift Valley fever virus (RVFV) infections. Developed prophylactic and therapeutic regimens for the use of recombinant human interferons in Rift Valley fever virus infections. Evaluated novel RVFV vaccines (ie. mutagen-attenuated virus vaccines and vaccinia recombinant vaccines). Responsibilities included: training of technical staff; collecting, processing, and assaying specimens for virus, viral antigen, antibody, and interferon; collecting, analyzing, interpreting, presenting, and publishing research data; BSL-3 level containment laboratory supervisor; acquisition of computer work stations and training of technical staff in their use.

1980-1983

U. S. Army sponsored graduate student
Texas A&M University
Department of Veterinary Microbiology
Ph.D. Thesis: Pathogenesis of Quadritypic Bluetongue
Virus Infection in Cattle (1984)

1978-1980

Deputy for Veterinary Activities and Officer-in-Charge
Food Hygiene Safety Quality Assurance Branch
U. S. Army Medical Department Activity
Fort Hood, Texas.

Managed zoonotic disease surveillance and prevention program, responsible for rabies control program, conducted epidemiologic investigations of food-borne illnesses, and managed food safety and quality assurance program in support of a troop population of approximately 45,000 active duty personnel.

1975-1978

Owned and operated private veterinary hospital in Gatesville, Texas.

Veterinary practice in rural central Texas included livestock and pets. Special emphasis on herd health programs for dairy cattle, beef cattle, dairy goats, sheep, swine, and brood mare operations.

1973-1975

Officer-in-Charge
Animal Care Branch
U. S. Army Medical Department Activity
Fort Hood, Texas.

Managed rabies control and zoonotic disease prevention and surveillance programs. Duties included public education on prevention of zoonotic disease and food-borne illnesses, plague surveillance in cooperation with the Texas Department of Public Health, and arthropod-borne viral disease surveillance in collaboration with Centers for Disease Control, Ft. Collins, Colorado.

1971-1973

Officer-in-Charge
Veterinary Food Inspection Service
Kansas City, Missouri.

Supervised inspection of government-owned subsistence and sanitation practices in U. S. government regional food storage warehouses in and around the Kansas City area. Responsibilities included food and sanitation inspections of more than 100 food processing plants located throughout western Missouri and eastern Kansas.

PROFESSIONAL ORGANIZATIONS:

American Veterinary Medical Association
American Society of Tropical Medicine and Hygiene
American Society of Tropical Veterinary Medicine
Phi Zeta
Phi Sigma

AWARDS AND HONORS:

Navy and Marine Corps Medal for Heroism
Meritorious Service Medal (4)
Army Commendation Medal (2)
Army Achievement Medal (2)
Army Superior Unit Award
Outstanding Volunteer Service Medal
National Defense Service Ribbon (2)
Humanitarian Service Medal
Army Service Ribbon
Overseas Service Ribbon
Expert Field Medical Badge
Army Science Conference award, West Point, New York, 1986
"A" proficiency designator - Microbiology
Ft. Detrick Outstanding Man of the Year Award - 1994
Order of Military Medical Merit - 1998

INTERESTS/HOBBIES:

Ornithology, computer repair, cartridge reloading, model railroading, taxidermy, hunting, fishing, woodworking, SCUBA diving, Boy Scouts of America.

PUBLICATIONS:

1. Morrill, J.C. and McConnell, S. 1984. An electron microscopic study of blood cells from calves experimentally infected with bluetongue virus. In Bluetongue and Related Orbiviruses. T.L. Barber and M.M. Jochim eds. Alan R. Liss, Inc., New York.
2. McConnell, S., Morrill, J.C., and Livingston, C.W. Jr. 1984. Use of a quadrivalent modified-live bluetongue virus vaccine in wildlife species. In Bluetongue and Related Orbiviruses. T.L. Barber and M.M. Jochim eds. Alan R. Liss, Inc., New York.
3. Morrill, J.C., Jennings, G.B., Caplen, H., Turell, M.J., Johnson, A.J., Peters, C.J. 1987. Pathogenicity and immunogenicity of a mutagen-attenuated Rift Valley fever virus immunogen in pregnant ewes. *Am. J. Vet. Res.* **48**:1042-1047.
4. Burke, D.S. and Morrill, J.C. 1987. Levels of interferon in the plasma and cerebrospinal fluid of patients with acute Japanese encephalitis. *J. Infect. Dis.* **155(4)**:797-799.
5. Lewis, R.M., Cosgriff, T.M., Peters, C.J., Morrill, J.C. 1987. Differentiation of a human monocytic cell line associated with increased production of Rift Valley fever virus by infected cells. *J. Med. Virol.* **23**:207-215.
6. Fox, E., El Tigani, A., George, J.F., Hidayatalla, A., Burans, J.P., Morrill, J.C. 1987. Short Report - Nasopharyngeal carcinoma not associated with HIV in Sudan. *Trans. R. Soc. Trop. Med. Hyg.* **81**:1012-1013.
7. Sheba, M.F., Woody, J.N., Zaki, A.M., Morrill, J.C., and Madkour, S. 1988. Short Report - The prevalence of HIV infection in Egypt. *Trans. R. Soc. Trop. Med. Hyg.* **82**:634.
8. Botros, B.A.M., Ksiazek, T.G., Morrill, J.C., Salib, A.W., Soliman, A.K., Scott, R.McN., Barakat, A. 1988. Rift Valley fever in Egypt, 1986. Surveillance of sheep flocks grazing the northeast Nile Delta. *J. Trop. Med. Hyg.* **91**:183-188.

9. Soliman, A.K., Botros, B.A.M., Morrill, J.C. 1988. Solid-phase immunosorbent technique for rapid detection of Rift Valley Fever virus Immunoglobulin M by hemagglutination inhibition. *J. Clin. Microbiol.* **26**:1913-1915.
10. Woodruff, P.W.R., Morrill, J.C., Burans, J.P., Hyams, K.C., Woody, J.N. 1988. A Study of viral and rickettsial exposure and causes of fever in Juba, southern Sudan. *Trans. R. Soc. Trop. Med. Hyg.* **82**:761-766.
11. Tigani, A.E., Fox, E., Hamid, M.A., Arabi, M.A., Rasmi, H., Burans, J.P., Morrill, J.C., Woody, J.N. 1988. Short Communication: Status of Aids in Khartoum in 1986. *E. Afr. Med. J.* **65(12)**:874-875.
12. Cosgriff, T.M., Morrill, J.C., Jennings, G.B., Hodgson, L.A., Slayter, M.V., Gibbs, P.H., Peters, C.J. 1989. The Hemostatic derangement produced by Rift Valley fever virus in rhesus monkeys. *Rev. Infect. Dis.* **11(4)**:S807-814.
13. Morrill, J.C., Jennings, G.B., Cosgriff, T.M., Gibbs, P.H., Peters, C.J. 1989. Prevention of Rift Valley fever in rhesus monkeys with interferon- α . *Rev. Infect. Dis.* **11(4)**:S815-825.
14. Peters, C.J., Liu, C-T., Anderson, G.W. Jr., Morrill, J.C., Jahrling, P.B. 1989. Pathogenesis of viral hemorrhagic fevers: Rift Valley fever and Lassa fever contrasted. *Rev. Infect. Dis.* **11(4)**:S743-749.
15. Lewis, R.M., Morrill, J.C., Jahrling, P.B., Cosgriff, T.M. 1989. Replication of hemorrhagic fever viruses in monocytic cells. *Rev. Infect. Dis.* **11(4)**:S736-742.
16. Morrill, J.C., Knauert, F.K., Ksiazek, T.G., Meegan, J.M., Peters, C.J. 1989. Rift Valley fever infection of rhesus monkeys: implications for rapid diagnosis of human Disease. *Res. Virol.* **140**:139-146.
17. Botros, B.A.M., Soliman, A.K., Darwish, M., El-Said, S., Morrill, J.C., Ksiazek, T.G. 1989. Seroprevalence of murine typhus and fievre boutonneuse in certain human populations in Egypt. *J. Trop. Med. Hyg.* **92**:373-378.
18. Soliman, A.K., Botros, B.A.M., Ksiazek, T.G., Hoogstraal, H., Helmy, I., Morrill, J.C. 1989. Seroprevalence of *Rickettsia typhi* and *Rickettsia conorii* infection among rodents and dogs in Egypt. *J. Trop. Med. Hyg.* **92**:345-349.

19. Fox, E., Burans, J.P., Omar, M.A., Farah, A.H., Guled, A., Yusef, S., Morrill, J.C., Woody, J.N. 1989. Aids: the situation in Mogadishu during spring 1987. J. Egypt Public Health Assoc. **LXIV**:135-143.
20. Hyams, K.C., Okoth, F.A., Tukei, P.M., Mugambi, M., Johnson, B., Morrill, J.C., Gray, G.C., Woody, J.N. 1989. Epidemiology of hepatitis B in Eastern Kenya. J. Med. Virol. **28**:106-109.
21. Mebus, C.A., Morrill, J.C., Breeze, R.G., Peters, C.J. 1989. Safety and immunity of a mutagen attenuated Rift Valley fever virus in pregnant cattle. Proc. U.S. Animal Health Assoc. 93rd Annual Meeting, pp 132-136.
22. Morrill, J.C., Soliman, A.K., Imam, I.Z., Botros, B.A.M., Moussa, M.I., Watts, D.M. 1990. Serological evidence of Crimean-Congo hemorrhagic fever viral infection among camels imported into Egypt. J. Trop. Med. Hyg. **93**:201-204.
23. Morrill, J.C., Jennings, G.B., Johnson, A.J., Cosgriff, T.M., Gibbs, P.H., Peters, C.J. 1990. Pathogenesis of Rift Valley fever in rhesus monkeys: role of interferon response. Arch. Virol. **110**:195-212.
24. Morrill, J.C., Carpenter, L., Taylor, D., Ramsburg, H.H., Quance, J., Peters, C.J. 1990. Further evaluation of a mutagen-attenuated Rift Valley fever vaccine in sheep. Vaccine **9**:35-41.
25. Morrill, J.C., Johnson, B.K., Hyams, C., Okoth, F., Tukei, P.M., Mugambi, M., Woody, J. 1991. Serological evidence of arboviral infections among humans of coastal Kenya. J. Trop. Med. Hyg. **94**:166-168.
26. Johnson, B.K., Okoth, F., Tukei, P.M., Mugambi, M., Woody, J.N., Morrill, J.C., Hyams, K.C. 1991. Dengue-2 virus in Kenya. Lancet **336**:1071.
27. Morrill, J.C., Czarniecki, C.W., Peters, C.J. 1991. Recombinant human interferon-gamma modulates Rift Valley fever virus infection in the rhesus monkey. J. Interferon Res. **11**:297-304.

28. Morrill, J.C., L. Carpenter, J. Dalrymple, C.J. Peters. 1991. Further evaluation of ZH-548 strain MP12 as a live attenuated Rift Valley fever vaccine for sheep. *Vaccine* **9**:35-41.
29. Rippey, M.K., Topper, M.J., Mebus, C.A., Morrill, J.C. 1992. Rift Valley fever virus-induced encephalomyelitis and hepatitis in calves. *Vet. Pathol.* **29**:495-502.
30. Morrill, J.C. 1993. Rift Valley fever in cattle. In Current Veterinary Therapy 3: Food Animal Practice, J.L. Howard, ed. W.B. Saunders Co., Philadelphia.
31. Morrill, J.C. 1993. Rift Valley fever in sheep and goats. In Current Veterinary Therapy 3: Food Animal Practice, J.L. Howard, ed. W.B. Saunders Co., Philadelphia.
32. Arthur, R.R., El-Sharkawy, M.S., Cope, S.E., Botros, B.A., Oun, S., Morrill, J.C., Shope, R.E., Hibbs, R.G., Darwish, M.A., Immam, I.Z.E. 1993. Recurrence of Rift Valley fever in Egypt. *Lancet* 342:1149-1150.
33. Hyams, K.C., Okoth, F.A., Tukei, P.M., Vallari, D.S., Morrill, J.C., Long, G., Bansal, J., Constantine, N. 1993. Inconclusive hepatitis C virus antibody results in African sera. *J. Infect. Dis.* **167**:254-255.
34. Imam, I.Z.E., Moussa, M.I., Morrill, J.C., Watts, D.M., Woody, J.N., Sorougy, Y.E. 1993. Arthropod-borne viral infections among camels imported into Egypt. *Br. J. Trop. Med.* (submitted).
35. Mariner, J.C., Morrill, J., Ksiazek, T.G. 1995. Antibodies to hemorrhagic fever viruses in domestic livestock in Niger: Rift Valley fever and Crimean-Congo hemorrhagic fever. *Am. J. Trop. Med. Hyg.* **53**(2):217-221.
36. Morrill, J.C., McClain, D.J. 1996. Epidemiology and pathogenesis of Rift Valley fever and other phleboviruses. In The Bunyaviridae, R.M. Elliott, ed. Plenum Press, New York.
37. Turell, M.J., Presley, S.M., Gad, A.M., Cope, S.E., Dohm, D.J., Morrill, J.C., Arthur, R.R. 1996. Vector competence of Egyptian mosquitoes for Rift Valley fever virus. *Am. J. Trop. Med. Hyg.* **54**(2):136-139.

38. Morrill, J.C., Mebus, C.A., Peters, C.J. 1997. Safety and efficacy of a mutagen-attenuated Rift Valley fever vaccine in cattle. *Am. J. Vet. Res.* **58**(10):1104-1109.
39. Morrill, J.C., Mebus, C.A., Peters, C.J. 1997. Safety of a mutagen-attenuated Rift Valley fever vaccine in the fetal and neonatal bovine. *Am. J. Vet. Res.* **58**(10):1110-1114.
40. Morrill, J.C. 1996. Pathogenicity and neurovirulence studies of a mutagen-attenuated Rift Valley fever vaccine in Rhesus monkeys. Vaccine (In preparation).

ABSTRACTS:

1. Simpson, T.R., Morrill, J.C., Davis, D.S., and McConnell, S. 1982. Response of white-tailed deer fawns (Odocoileus virginianus) to a polyvalent bluetongue modified-live virus vaccine. Wildlife Disease Association Annual Meeting, 17-20 August, 1982, Madison, Wisconsin.
2. Morrill, J.C., Clement, G., McConnell, S., and Livingston, C.W. Jr. 1982. Mouflon sheep: hemic values and naturally acquired precipitin antibodies to bluetongue virus and epizootic hemorrhagic disease virus. Wildlife Disease Association Annual Meeting, 17-20 August, 1982, Madison, Wisconsin.
3. J. C. Morrill, G.B. Jennings, H. Caplen and C. J. Peters. 1984. Evaluation of an attenuated Rift Valley fever virus in pregnant ewes. 33rd Annual Meeting of the Royal Society of Tropical Medicine and Hygiene, December 3-6, 1984, Baltimore, Maryland.
4. Cosgriff, T.M., Morrill, J.C., Jennings, G.B., Peters, C.J., and Hodgson, L.A. 1985. Rift Valley fever virus in rhesus monkeys produces multiple hemostatic abnormalities which are prevented by interferon. Xth International Congress on Thrombosis and Haemostasis, 14-19 July 1985, San Diego, California.
5. J.C. Morrill, G.B. Jennings, and C.J. Peters. 1985. Recombinant human leukocyte interferon prophylaxis and therapy in Rift Valley fever virus infected rhesus monkeys. Joint Meeting of the 34th Annual Meeting of the American Society of Tropical Medicine and Hygiene and the American Society of Tropical Veterinary Medicine, November 3-7, 1985, Miami, Florida.
6. F.K. Knauert, J.C. Morrill, and M.J. Turell. 1985. A nucleic acid hybridization assay for detecting Rift Valley fever virus. Joint Meeting of the 34th Annual Meeting of the American Society of Tropical Medicine and Hygiene and the American Society of Tropical Veterinary Medicine, November 3-7, 1985, Miami, Florida.
7. MacDonald, C., K. McKee, Jr., J. Huggins, J. Morrill, J. Meegan, C.J. Peters, and P. Canonico. 1986. Ribvirin (RB) prophylaxis of sandfly fever-Sicilian (SFS) infection in human volunteers. 86th Annual Meeting of the American

Society for Microbiology, 23-28 March, 1986, Washington, DC.

8. Dalrymple, J.M., Morrill, J.C., Sridhar, P., Hu, S.L., and Collett, M.S. 1986. Evaluation of a recombinant vaccinia virus vaccine candidate for Rift Valley fever. American Society for Virology Annual Meeting, 22-26 June, 1986, Santa Barbara, California.
9. Canonico, P.G., MacDonald, C., McKee, K., Huggins, J., Morrill, J., Meegan, J., and Peters, C.J. 1986. Ribavirin prophylaxis of sandfly fever-Sicilian infection in human volunteers. Army Science Conference, July 1986, West Point, New York.
10. Botros, B.A.M., Ksiazek, T.G., Scott, R.M., Morrill, J.C., Salib, A.W., Soliman, A.K., and Barakat, A. 1986. Rift Valley fever surveillance in Egypt, 1985-1986. IXth International Congress of Infectious and Parasitic Diseases, July 1986, Munich, Federal Republic of Germany.
11. Morrill, J.C. 1986. Current progress in Rift Valley fever vaccine development. Invited speaker at the First National Veterinary Symposium in Somalia, October 12-15 and 16, 1986, Mogadishu, Somalia.
12. MacDonald, C., A.M. Briggiler, K.T. McKee, F. Feinsod, J. Morrill, P. Gibbs, C.J. Peters, J.I. Maiztegui, and J.G. Barrera Oro. 1986. Ensayos iniciales en humanos de una vacuna viva atenuada contra la fiebre hemorragica Argentina (Candid #1). A. Semiologia y Laboratorio Clinico. II Argentine Congress on Virology, 20-24 October, 1986, Cordoba, Argentina.
13. J.C. Morrill, M.S. Collett, and J.M. Dalrymple. 1986. Evaluation of experimental Rift Valley fever virus vaccines in pregnant sheep. 35th Annual Meeting of the American Society of Tropical Medicine and Hygiene, December 7-11, 1986, Denver, Colorado.
14. Lewis, R.M., Morrill, J.C., Peters, C.J., and Cosgriff, T.M. 1987. U937 cell differentiation and replication of Rift Valley hemorrhagic fever virus. XIth Congress on Haemostasis and Thrombosis, 1987, Brussels, Belgium.
15. P.W.R. Woodruff, J.C. Morrill, K.C. Hyams, and J.N. Woody. 1987. A study of viral and rickettsial infections in Juba, southern Sudan. 36th Annual Meeting of the American

Society of Tropical Medicine and Hygiene, November 29 -
December 3, 1987, Los Angeles, California.

16. Soliman, A.K., B.A.M. Botros, T.G. Ksiazek, and Morrill, J.C. 1988. Murine typhus in rodents in Egypt. XIIth International Congress for Tropical Medicine and Malaria, 18-23 September, 1988, Amsterdam, The Netherlands.
17. J.C. Morrill, L. Carpenter, D. Taylor, H. Ramsburg, J. Dalrymple, H.W. Lupton, and C.J. Peters. 1988. Further studies on the safety and protectivity of a mutagenized Rift Valley fever virus immunogen. 37th Annual Meeting of the American Society of Tropical Medicine and Hygiene, December 4-8, 1988, Washington, D.C.
18. T.G. Ksiazek, J.M. Meegan, J.C. Morrill, and C.J. Peters. 1988. An IgM-specific antibody-capture ELISA for Rift valley fever diagnosis in sheep, cattle and goats. 37th Annual Meeting of the American Society of Tropical Medicine and Hygiene, December 4-8, 1988, Washington, D.C.
19. E.D. Johnson, J. Morrill, P. Lawyer, P. Tukei, R. Trotter, J. White, B. Hall, M. Kiley, D. Silverstein, R. Zimmerman, and B. Johnson. 1988. Marburg virus: the search at Kitum Cave. 37th Annual Meeting of the American Society of Tropical Medicine and Hygiene, December 4-8, 1988, Washington, D.C.
20. J.C. Morrill, C.A. Mebus, C.A., Breeze, R.G., and Peters, C.J. 1989. Safety and efficacy of a mutagen-attenuated Rift Valley fever vaccine in pregnant bovids. 38th Annual Meeting of the American Society of Tropical Medicine and Hygiene, December 10-14, 1989, Honolulu, Hawaii.
21. Smith, J.I., Monath, T.P., Malinoski, F.J., Hack, D.C., Kende, M., Huggins, J.W., Turell, M., Ortaldo, J., Kenyon, R.H., Ksiazek, T., Morrill, J., Gibbs, P., and Womble, K. 1990. Quantitative measurement of serum neopterin in acute sandfly fever virus (Sicilian) infection in medical research volunteer subjects. The Third International Conference on Antiviral Research, 22-27 April, 1990, Brussels, Belgium.
22. Huggins, J.W., Morrill, J.C., Zhang, Z.X., Brand, O.M., Topper, M.J., Smith, J.I., Bartz, C.R. 1990. Rift Valley fever virus infected Rhesus as a model for drug evaluation: Comparison of prophylaxis with ribavirin or

placebo. The Third International Conference on Antiviral Research, 22-27 April, 1990, Brussels, Belgium.

23. Morrill, J. 1990. Progress with a live, attenuated vaccine for Rift Valley fever virus. 39th Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 4-8, 1990, New Orleans, LA.
24. Rippy, M.K., Hall, W.C., Trotter, R.W., and Morrill, J.C. 1990. Pathogenesis of abortion in sheep given Rift Valley fever virus. 39th Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 4-8, 1990, New Orleans, LA.
25. Morrill, J.C. and Peters, C.J. 1991. Studies on a mutagen-attenuated Rift Valley fever vaccine candidate (MP12) in non-human primates. 40th Annual Meeting of the American Society of Tropical Medicine and Hygiene, December 1-5, 1991, Boston, Massachusetts.
26. Pitt, M.L. and Morrill, J.C. 1991. The mutagen-attenuated Rift Valley fever vaccine (MP12): potential for a mucosal vaccine. 40th Annual Meeting of the American Society of Tropical Medicine and Hygiene, December 1-5, 1991, Boston, Massachusetts.
27. Ibrahim, M.S., Knauert, F.K., Korch, G.W., Loftis, R.S., Morrill, J.C. 1994. Rapid PCR-based assay for detection of Venezuelan equine encephalitis. 43rd Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 13-17, 1994, Cincinnati, Ohio.
28. Rodier, G.R., Cope, S.E., Calamaio, C., Oun, S., Botros, B., Nasser, A., Khalifa, M., Osman, M., Hatch, D.L., Morrill, J.C., Arthur, R.R. 1994. Cross sectional survey and cohort study of human and animal populations in two Egyptian villages during the 1993 epidemic of Rift Valley fever (RVF). 43rd Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 13-17, 1994, Cincinnati, Ohio.
29. Presley, S.M., Cope, S.E., Gad, A.M., Morrill, J.C., Arthur, R.R. 1994. Intensive arthropod surveillance to identify potential vectors during 1993 Egyptian Rift Valley fever outbreak. 43rd Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 13-17, 1994, Cincinnati, Ohio.

30. Lewis, T.E., Rossi, C.A., Kijek, T.M., Watts, D.M., Turell, M.J., Ludwig, G., Morrill, J.C., Arthur, R.R., Cope, S.E., Mangiafico, J.A., Parker, R.W., Henschal, E.A. 1997. Use of ELISA to Identify Viral Isolates After Amplification in Cell Culture. 46th Annual Meeting of the American Society of Tropical Medicine and Hygiene, December 7-11, 1997, Lake Buena Vista, Florida.

Sherrilyn Hart Wainwright, DVM, MPH

USDA/APHIS/VS

6200 Jefferson St. NE Suite # 117

Albuquerque, NM 87109

505-761-3160

EMPLOYMENT

August 1998- **Area Epidemiology Officer**

Present **USDA/APHIS/Veterinary Services, Albuquerque, NM**

Responsible for the federal disease control and eradication programs in New Mexico including Brucellosis, Tuberculosis, Pseudorabies, Transmissible Spongiform Encephalopathies (BSE, CWD), Scrapie, Equine Infectious Anemia and reporting of Foreign Animal Disease Investigations. I currently supervise two laboratorians and two program record specialists and work closely with the Area Veterinarian in Charge, the Animal Identification Coordinator, four Veterinary Medical Officers and three Animal Health Technicians. I meet, discuss disease, emergency and animal health issues of mutual interest, and decide on effective approaches to prevention measures, control and eradication of specific diseases with the New Mexico State Veterinarian, State Veterinary Diagnostic Laboratory Director, the New Mexico Public Health Department and Veterinary Services offices and State Animal Health offices of border states. I am collaborating on a multi-state Vesicular Stomatitis Virus research project to improve understanding of risk factors and modes of transmission for this virus in Colorado and New Mexico. I am chairperson for EEO/CR committee collaborating with Plant Protection and Quarantine, Wildlife Services, Animal Care, and Investigative and Enforcement Services on a One APHIS EEO/CR committee.

1996-1998 **Medical Epidemiologist**

Centers for Disease Control and Prevention (CDC), Atlanta, GA

National Immunization Program (NIP), Epidemiology and Surveillance Division, Adult Vaccine Preventable Diseases (AVPD)

Mar 30 -

Apr 20, 1998 Detail as **Acting State Epidemiologist for Wyoming:**

I was responsible for all Wyoming (WY) public health related issues. I responded to a pertussis outbreak (confirmed culture from the Wyoming State Lab), rabies exposures, food-borne outbreaks, fatal invasive Group A Strep infection, and a differential of Legionella with borderline test results among others. I coordinated these state responses in collaboration with my office staff, the WY State Lab, the wide-network of field public health staff, the WY Dept of Agriculture and the local City and County Health Officers as well as the Epidemiologists of other states potentially having implications of ongoing investigations and the Centers for Disease Control and Prevention.

CDC/NIP: Senior staff epidemiologist for measles and rubella in adolescents and adults. I am responsible for improving, implement and evaluate, in collaboration with CDC's Hospital Infections Program and enrolled hospitals, a national hospital surveillance project to monitor vaccine coverage, exposures, and outbreaks related to vaccine-preventable diseases among health care workers.

Coordinate adult immunization efforts to address women's health issues.

Represent NIP to CDC's Women's Health Committee.

I am the NIP liaison to the Bone Marrow Transplantation (BMT) Immunization Working Group and am the primary responsible person to coordinate the development and production of the "Immunization Schedule for BMT Recipients"

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with direct participation of CDC/National Center for Infectious Diseases and the Advisory Committee on Immunization Practices (ACIP).

I represent the NIP on the Lyme Disease Vaccine Working Group to develop recommendations to present to the ACIP.

I teach case-study scenarios for "Epidemiology-in-Action" National and International Spring and Fall courses. (1995-1998)

Moderate Epidemic Intelligence Service (EIS) Surveillance presentations (1995-1997)

Responsible in collaboration with the Pan American Health Organization (PAHO) and the Mexican Foreign Epidemiology Training Program (FETP) to develop and teach Environmental and Occupational Health Epidemiology.

1994-1996

Preventive Medicine Resident

Centers for Disease Control and Prevention (CDC), Atlanta, GA

Georgia Department of Health and Human Resources, Chronic Diseases Prevention and Promotion Branch.

Coordinated a community intervention to prevent heat-related illness during the 1996 Centennial Olympic Games in Atlanta collaborating with Federal, State, and County Health and Public Service Departments, non governmental community organizations, and the Atlanta Committee for the Olympic Games (ACOG).

In conjunction with the State Epidemiologist I assisted in setting up and provided training to establish a sentinel hospital surveillance site for one of the satellite Olympic event locations not in the Olympic Ring.

Provided epidemiological support for the Georgia Tobacco-Use Prevention program.

1993-1995

Epidemic Intelligence Service Officer

CDC, Center for Environmental Health, Environmental Hazards and Health Effects, Health Studies Branch, Atlanta, GA

CDC, Center for Environmental Health, Environmental Hazards and Health Effects, Health Studies Branch, Atlanta, GA

Trained and practiced epidemiology, biostatistics, field investigations, surveillance, prevention effectiveness and worked with local, state, federal and foreign governments and media on public health issues. Collaborated with internal and external agencies to design, implement, analyze, and present results of epidemiological investigations.

The investigations included: evaluation of heat-related mortality associated with a heatwave in Philadelphia, Pennsylvania, July 1993; working in coordination with PAHO and the Bolivian government to investigate heavy metals exposure from a tin smelter in Oruro, Bolivia, 1994; and designing a study to evaluate effects of exposure to the herbicide, Tebuthiuron, in a recreational park-KS, 1996.

Published articles:

Occupational Exposures to Heavy Metals at a Bolivian Smelter. Sussell A, Singal M, Wainwright S. Applied Occupational and Environmental Hygiene.1996;11(7):591-5.

Jin Bu Huan toxicity in children - Colorado, 1993. *MMWR* 1993;42:633-6.

Jin Bu Huan toxicity in adults - Los Angeles, 1993. *MMWR* 1993;42:920-2.

Heat-Related Deaths -- Philadelphia and United States, 1993-1994. *MMWR* 1994;43:453-5.

Preventable morbidity and mortality due to extreme hot weather. *MMWR*

S. H. Wainwright, DVM, MPH

1995;44:465-8.

- 1992-1993 **Staff Veterinarian, Salmonella enteritidis Control Program**
USDA/APHIS/VS, Hyattsville, MD
Coordinated Salmonella enteritidis National Control Program activities. Worked closely with state-based and regional Federal personnel, state departments of health and of agriculture, industry representatives, USDA Laboratory, research institutes, Centers for Disease Control and Prevention, other Federal agencies, and Senior Executive Staff of USDA/APHIS to maintain communication, discuss regulatory procedures, and to provide epidemiological and technical support for effective decision-making. Participated as a member of the USDA/APHIS team to develop strategic planning for Preharvest Food Safety initiative.
- 1989-1991 **Veterinary Epidemiologist**
USDA/APHIS/VS, Jackson, MS
Coordinated epidemiological investigations in Brucellosis and Pseudorabies Programs. Supervised laboratory personnel. Advised field Veterinary Medical Officers on epidemiological investigations regarding methodology, laboratory results, and decisions to implement interventions. Interacted with field and office staff personnel, herd owners, veterinarian, representatives from the industry, the state veterinary college, the state veterinarian, the state legislature, other state's State and Federal Veterinary Epidemiologists as needed for epidemiological investigations, and the scientists and administrators in USDA/APHIS/VS headquarters.
- 1988-1989 **Veterinary Medical Officer**
USDA/APHIS/VS, Oxford, MS
Engaged in field-work leading epidemiological investigations. Supervised six livestock inspectors. Developed and implemented individual Brucellosis herd eradication plans with herd owners. Worked with local agricultural extension specialists and local veterinarians.
- 1987-1988 **Veterinary Medical Officer/Public Veterinary Practice Career Trainee**
USDA/APHIS/VS, Wellington, KS
Trained in epidemiology, federal animal disease control and eradication programs, an epidemiological field exercise with swine herds (North Carolina), and biostatistical course work at the CDC. My field work included an investigation of an outbreak of equine oral ulcerous lesions in Kansas and field work in Brucellosis and Animal Welfare programs.
- 1987 **Relief Veterinarian**
Jane's Veterinary Hospital, Laredo, TX
Practiced large and small animal medicine. Spanish fluency required.

Education and Training

- June-Sept **Center for Disease Control/Division of Vector-Borne Infectious**
1992 **Diseases/Bacterial Zoonoses Branch, Ft. Collins, CO**
Awarded an Association of Schools of Public Health Internship.
Assisted in an epidemiological investigation, "Lyme disease study in New Jersey" - June 1993.
- 1991-1992 **Johns Hopkins University-School of Hygiene and Public Health (JHUSHPH),**
Baltimore, MD
Master of Public Health - Epidemiology

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Special Studies - Zoonoses

1982-1987 **Texas A&M University-College of Veterinary Medicine,**
College Station, TX
Doctor of Veterinary Medicine

1978-1979 **Texas A&M University,** College Station, TX
Master of Agriculture (Nutrition)

1974-1980 **University of Connecticut,** Storrs, CT
Bachelor of Science (Animal Science)

Language skills: SPANISH Fluent. Residence in Buenos Aires, Argentina (1967-1972).
FRENCH Conversational

Medical License: **Doctor of Veterinary Medicine:** **Texas** **#6337**

Computer skills: EpiInfo 6, GLIM, SAS, Harvard Graphics,
WordPerfect 6.1, Windows.

Member of the **Gamma Sigma Delta Honor Society.**

Certificate of Merit: "Dedicated performance of duties and extracurricular activities resulting in the improvement in field epidemiology, increased progress in the Mississippi Brucellosis Eradication Program and EEO awareness in Mississippi." March 20, 1991.

Professional Organizations:

American Public Health Association	American Society of Tropical Medicine and Hygiene
American Veterinary Medical Association	Association of Public Health Veterinarians
Texas VMA (Public Health Committee)	Association of Women Veterinarians
National Association of Federal Veterinarians	

Curriculum Vitae Mike Bunning

Home Address: 4005 Royal Drive
Fort Collins, Colorado 80526

Home Phone: 970-226-6163

Work Address: National Center for Infectious Diseases
Centers for Disease Control and Prevention
Division of Vector-Borne Infectious Diseases
P.O. Box 2087
Fort Collins, Co 80522

Work Phone: 970- 221-6486

E-Mail: Zyd7@cdc.gov

CURRICULUM VITAE

NAME: Michel L. Bunning, D.V.M., MPH,
Epidemic Intelligence Service Officer
LTC, Biomedical Science Corps
United States Air Force

SPECIALTY: Public Health Officer/Epidemiology

CURRENT ASSIGNMENT: Epidemic Intelligence Service Officer, Centers for Disease Control and Prevention

ADDITIONAL DUTIES:

PREVIOUS MILITARY ASSIGNMENTS:

Commander, Public Health Flight, Hickam Air Force Base
Pacific Air Forces' Public Health, Health Promotions and Put Prevention into Practice Officer
Hickam Air Force Base, Hawaii (July 96 – July 1998)

- Implemented DoD Anthrax Program for Pacific Air Force (PACAF)
- Responsible for PACAF Hepatitis A vaccination program
- Responsible for planning/programming/budgeting and policy directives for 26 Public Health Officers and 325 technicians

Chief of Military Public Health
Incirlik Air Base, Turkey (August 1992 - June 1994)

- Paramount in tackling the number one problem in USAFE last year: lack of potable water for Incirlik Air Base community
 - Developed crucial weekly status reports channeled up to Commander in Chief, United States Air Force Europe
 - Expertly guided information flow to public and command staff throughout the crisis
 - Exceptional leadership and know-how resulted in zero contamination water related illnesses
- Within one month of arrival, Major Bunning honed in on potentially devastating public health concerns in the 1,200 person tent city population supporting Operation PROVIDE COMFORT
 - Directed comprehensive unified cleanup projects and monitoring programs; within the first 30 days, a vast improvement of tent city sanitation was clearly evident
 - Directly boosted morale and effectiveness of deployed personnel with critical wartime duties

- Developed the first Military Medical over-site group for preventive medicine, bringing the French, English, Turkish, and Americans together to handle common medical problems
 - This was hailed by all coalition members as a must in an operational theater, a true medical coalition, and an Air Force first
- Superbly managed the first recorded malaria outbreak on Pirinlik Air Base
 - Directed numerous preventive measures that stopped the spread of malaria and prevented mission impact; implemented DoD-wide medical alert that provided for prophylaxis for incoming personnel
- Worked for two-year period supporting Operation PROVIDE COMFORT
 - Investigated and reported to the United Nations on conditions of Kurdish refugees in the northern Iraq
 - He is credited with saving thousands of lives by rapidly assessing, reporting and working with NGO's to develop rapid delivery of life saving food and medicine

Chief of Military Public Health

Zaragoza Air Base, Spain (September 1990 - August 1992)

- Developed Epidemiological Reporting System between the Spanish and US bases
 - Resulted in early recognition of viral outbreak and necessary action for control
 - Completed transfer of the Public Health information between local community and the base, resulted in a highly praised, biweekly communicable disease bulletin
- Supported Operation Desert Storm by developing and constructing Public Health portions of the Mobile Aeromedical Staging Flight with outstanding results
 - Developed a decontamination unit for MASF that was operational in forty-eight hours
- Selected as the Medical Squadron Section Commander with exceptional results

Chief of Environmental Health Services

Vandenberg AFB, California (August 1988 - June 1990)

- Aggressive incoming inspection found serious deficiencies in the Hospital Employee Health and Occupational Physical Programs
 - Developed superb systems for elimination the cause of these problems
 - Implemented procedures for accomplishing 680 past due physicals
- Implemented an innovative system of completing occupational physicals by developing a block format that decreased the no-show rates by 75% by allowing the supervisors to make changes in schedules according to the work load
 - Increased productivity by 50% by decreasing the set-up time for physicals and decreased the patient waiting time by 15 minutes

PREVIOUS CIVILIAN WORK EXPERIENCE:

Veterinary, Small Animal Practitioner
Clinton, Oklahoma (February 1982 - June 1988)

Veterinary, Mixed Animal Practitioner
Creston, British Columbia, Canada (June 1980 - January 1982)

MILITARY TRAINING:

Military Indoctrination for Medical Service Officers
School of Health Care Sciences
Sheppard AFB, Texas (June 1988)

Environmental Health Officer Course
School of Aerospace Medicine
Brooks AFB, Texas (June 1988 - Sept. 1988)

Environmental Health Officer Intermediate Training Course
School of Aerospace Medicine
Brooks AFB, Texas (February 1989)

Medical Readiness Planners Course
Sheppard AFB, Texas (July 1989)

Medical Readiness Instructors Course
Sheppard AFB, Texas (May 1990)

Medical Effects of Nuclear Weapons
Armed Forces Radiobiology Research Institute
Bethesda, Maryland (February 1990)

Squadron Officer School
Maxwell AFB, Montgomery, Alabama (August 1990)

United States Air Forces in Europe Commander Seminar
Ramstien AFB, Germany (Feb. 1991)

United States Air Forces in Europe Quality Services Conference
Fairford Air Base, United Kingdom (May 1991)

Senior Public Health Symposium

School of Aerospace Medicine
Brooks Air Force Base, Texas (May 1992,93,95)

Air Command and Staff College
Maxwell Air Force Base
Montgomery, Alabama (August 1994 - June 1995)

PACAF Squadron Commanders School
Hickam AFB, Hawaii (Jan 1997)

Health Emergencies in Large Populations
International Committee of the Red Cross
Honolulu, Hawaii (July 14 – Aug 1 1997)

EDUCATION:

Master's of Public Health - 1996
Harvard University
Boston, Massachusetts

International Relations and Preventive Medicine
Air Command and Staff College
Maxwell Air Force Base
Montgomery, Alabama (August 1994 - June 1995)

Doctor of Veterinary Medicine - 1980
Oklahoma State University
Stillwater, Oklahoma

Bachelor of Science - 1978
Oklahoma State University
Stillwater, Oklahoma

Bachelor of Science - 1976
Cameron University
Lawton, Oklahoma

PROFESSIONAL ORGANIZATIONS:

Air Force Association
Society of Military Public Health Professionals
American Public Health Association
American Veterinary Medical Association
Canadian Veterinary Medical Association
Oklahoma Veterinary Medical Association

PROFESSIONAL MILITARY HONORS:

Company Grade Officer of the Quarter
Vandenberg AFB, California (Jan.- Mar. 1990)

Company Grade Officer of the Year
16th Air Force (1991)

Company Grade Officer of the Year
Zaragoza Air Base, Spain (1991)

Company Grade Officer of the Year
406 TFTW Clinic, Zaragoza, Spain (1991)

Public Health Officer of the Year
United States Air Force (1993)

MILITARY AWARDS AND DECORATIONS:

Meritorious Service Medal with three devices
Air Force Commendation Medal
Air Force Achievement Medal with two devices
Joint Service Commendation Metal
Small Arms Expert Marksmanship Ribbon with Star
National Defense Service Medal
Southwest Asian Medal with Star
Air Force Training Ribbon
Air Force Longevity Ribbon
Outstanding Unit with Cluster
Kuwait Liberation Medal

CIVILIAN ACTIVITIES AND HONORS:

Who's Who in American Colleges and Universities (1975 and 1976)
Four-Year Athletic Scholarship to Cameron University (Football)
Chi Lambda Upsilon, Honor Fraternity, Cameron University
Senior Class President, Cameron University (1975-1976)
Junior Class President, Cameron University (1974-1975)
Alpha Phi, Honor Fraternity, Oklahoma State University
Board Member of Veterinary Teaching Committee, Oklahoma Veterinary
Medical Association
Lay Ministry Coordinator for Western Oklahoma District
Founding member of Clinton Society of Prevention of Cruelty to Animals

Oklahoma State University Alumni Association
Clinton, Oklahoma United Way - Board of Directors
Boy Scouts of America, Webelos Den Leader (1993 and 1994)
Coach, National Science Olympiad (1995)
Coach, Little League Baseball (1996)
Coach, Minor League Baseball (1997)

ADDITIONAL INFORMATION:

Date and place of birth:	17 October 1953, Port Clinton, Ohio
Hometown:	Snyder, Oklahoma
Spouse:	Marisa L. Hamilton
Children:	Abbey, 17 Josh, 15 Luke, 13

Current as of 1 Dec 1998

CURRICULUM VITAE

NAME	Michael R. Peterson, DVM, MPH, DrPH 10801 Steven Lee Court Fairfax, VA 22032
TELEPHONE	Home: (703) 352-0191 Office: (202) 782-2647
CURRENT POSITION	Distinguished Scientist and Chairperson, Department of Epidemiology, Repository & Research Services Armed Forces Institute of Pathology
CERTIFICATION	Fellow, American College of Epidemiology
HONORS	Distinguished Graduate Award, April 1995, University of Pittsburgh, Graduate School of Public Health
PREVIOUS EXPERIENCE	
1995 - Present	Chairperson, Department of Epidemiology, Repository, & Research Services Armed Forces Institute of Pathology
1992 - 1995	Executive Secretary, Armed Forces Epidemiology Board
1987 - 1992	Senior Policy Analyst, Preventive Medicine, Epidemiology, and Health Promotion, Office of the Assistant Secretary of Defense (Health Affairs), Pentagon, Washington, D.C.
1985 - 1987	Chief, Occupational Epidemiology, School of Aerospace Medicine, Brooks AFB, Texas
1982 - 1985 Pennsylvania	DrPH program in Chronic Disease Epidemiology, University of Pittsburgh, Pittsburgh,
1979 - 1982	Chief, Base Veterinary Services, Hanscom AFB, Massachusetts
1976 - 1979	Chief, Base Veterinary Services, Rota NAS, Spain
1975 - 1976	MPH program in Zoonotic and Infectious Diseases, University of Minnesota, Minneapolis, Minnesota
1973 - 1975	Chief, Base Veterinary Services, F.E. Warren AFB, Wyoming

1970 - 1973 Small animal practice in Chicago, Illinois and
 Denver, Colorado

COLLATERAL EXPERIENCE

1987 - 1995

Commissioner, National Commission on AIDS (1989 -
(1994), Representing the Secretary of Defense and the
Assistant Secretary of Defense for Health Affairs

Liaison Representative, USPHS Advisory Committee on
Immunization Practices (1987 - 1994)

Liaison Representative, Federal Task Force on
Environmental Cancer and Heart and Lung Disease (1987
- 1992) and the Task Force Subgroup on Risk
Communication and Public Education (1989 - 1990)

Member, Federal Coordinating Committee on the HIV
Epidemic, and the International Health Subcommittee
(1987 - 1992)

Liaison Representative, USPHS Animal Model Committee
(1987 - 1991)

Liaison Representative, Armed Forces Epidemiology
Board (Assistant Secretary of Defense for Health
Affairs, 1987 - 1992)

Liaison Representative, National Vaccine Program
Interagency Working Group (Department of Defense
Alternate, 1987 - 1989)

Liaison Representative, Intergovernmental Consultants
for the 1989 National Conference on HIV Infection and
AIDS Among Racial and Ethnic Populations
Consultant in Epidemiology to the Assistant Secretary
of Defense for Health Affairs (1987 - 1992)

Chairman, Department of Defense Disease Prevention and
Control Coordinating Committee (1987 - 1992)

Chairman, Department of Defense Reportable Disease
Database Working Group (1987 - 1992)

Liaison Representative, Global Epidemiology Working Group, Armed Forces Medical Intelligence Center (1987 - 1992)

Technical Representative, 1988 Worldwide Survey on Substance Abuse and Health Behaviors Among Military Personnel

Liaison Representative, United States Department of Agriculture Working Group on AIDS Policy (1988)

Chairman, 1988 Department of Defense HIV Policy Review Working Group

Liaison Representative, National Coalition For Adult Immunization (National Foundation for Infectious Diseases), and the Measles, Mumps, and Rubella Action Group (1989)

Liaison Representative, USPHS Executive Task Force on AIDS, Subgroup on Patient Care/Health Service Delivery (1990 - 1991)

Chairman, Tri-Service Working Group on Health Promotion and Disease Prevention (1990 - 1992)

Liaison Representative, American Cancer Society/Department of Defense Working Group (1991 - 1992)

Member, Assignment Coordination Subcommittee and Compliance Subcommittee of the Department of Defense Coordinating Committee on Special Education and Related Services (1988 - 1989)

Liaison Member, Agent Orange Science Panel (1991 - 1992)

Liaison Representative, Federal Interagency Committee on Worksite Health Promotion and Disease Prevention (1991 - 1992)

Liaison Representative, Federal Coordinating Council on Science, Engineering, and Technology (FCCSET) Subcommittee on International Vaccine Trials (1992)

1985 -1987

Adjunct Professor, School of Aerospace Medicine, and
Principal Investigator, USAF Health Study (An
Epidemiologic Investigation of Health Effects in Air
Force Personnel Following Exposure to Agent Orange)

1973 - 1985

Medical Intelligence Officer

1973 - 1975

Supervisor, Bacteriological Testing Laboratory, USAF
Foil Pack Food Facility, F.E. Warren AFB, Wyoming

EDUCATION

B.S.	Veterinary Medicine, University of Illinois (1968)
D.V.M.	University of Illinois (1970)
M.P.H.	Zoonotic and Infectious Diseases, University of
Minnesota	(1976)
Dr.P.H.	Chronic Disease Epidemiology, University of Pittsburgh (1985)

PROFESSIONAL LICENSURE

Veterinary Medicine - Illinois, Colorado, Pennsylvania

PROFESSIONAL ASSOCIATIONS

American College of Epidemiology
American Public Health Association
American Veterinary Medical Association

PUBLICATIONS

Peterson MR, Frommelt RA, Dunn DG. Lifetime
occurrence of neoplasia and breed differences in a
cohort of German Shepherd Dogs and Belgian Malinois
military working dogs that died in 1992. *[Submitted
to Journal of Internal Veterinary Medicine]*

Frommelt RA, Peterson MR, O'Leary TJ. A comparison of
cervical cytologic outcomes between active duty US Air
Force veterans of the Persian Gulf War and non-
deployed Gulf War-era Veterans, 1994-1996. *[in
preparation]*.

Armstrong KR, Clark TR, Peterson MR. Use of corn-husk
nesting material to reduce aggression in caged mice.

Contemporary Topics in Laboratory Animal Science.
1998;37:64-66.

Peterson MR. The Armed Forces Institute of Pathology:
an underutilized repository of case material.
American Journal of Public Health. 1996;86(4):1.

Granville RL, Wiley MJ, Peterson MR, Schutt D, Litts
D. Characteristics of Department of Defense medical
malpractice claims: an update. Legal Medicine Open
File. 1996;File 96:2-11.

Bray RM, Marsden ME, Herbold JR, Peterson MR.
Progress toward eliminating drug and alcohol abuse
among military personnel. Armed Forces and Society.
1992;18(4):476-486.

Bray RM, Marsden ME, Peterson MR. Standardized
comparisons of the use of alcohol, drugs and
cigarettes among military personnel and civilians.
American Journal of Public Health. 1991;81(7)865-869.

Brundage JF, Burke DS, Gardner LI, McNeil J,
Goldenbaum M, Visitine R, Redfield RR, Peterson MR,
Miller RN. Tracking the spread of the HIV infection
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first four years of screening among civilian
applicants for US military service. Journal of
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1180.

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Edition, 1990. An official report of the American
Public Health Association. Department of Defense
liaison representative for review.

Burke DS, Brundage JF, Goldenbaum MS, Gardner LI,
Peterson MR, Visitine R, Redfield R. Human
immunodeficiency virus infections in teenagers,
seroprevalence among applicants for U.S. military
service. Journal of the American Medical Association.
1990;263(12)2074-2077.

Environmental cancer and heart and lung disease,
Eleventh Report to Congress, 1989/90, Task Force on
Environmental Cancer and Heart and Lung Disease. (As
a member of the task force).

Bray RM, Marsden ME, Peterson MR. Standardized comparisons of the use of alcohol, drugs, and cigarettes among military personnel and civilians. [Abstract]. Presented at the annual meeting of the American Public Health Association, October 23, 1989, Chicago, Illinois.

Bray RM, Marsden ME, Rachal JV, Peterson MR. Drug and alcohol use in the military workplace: findings from the 1988 worldwide survey [Abstract]. National Institute on Drug Abuse Conference on Drugs in the Workplace: research and evaluation data. Bethesda, MD, September, 1989.

Bray RM, Peterson MR. Drugs in the military workplace: results of the 1988 worldwide survey [Abstract]. National Institute on Drug Abuse Conference on Drugs in the Workplace. Rockville, MD, September, 1989.

Vogl WF, Peterson MR, Jewell JS. Prevalence of drug-screening among applicants for military service - United States, June - September 1988. Morbidity and Mortality Weekly Report. 1989;38(33):576-578.

Pirkle JL, Wolfe WH, Patterson DG, Needham LL, Michalek JE, Miner JC, Peterson MR, Phillips DL. Estimates of the half-life of 2,3,7,8-tetrachlorodibenzo-p-dioxin in Vietnam veterans of Operation Ranch Hand. Journal of Toxicology and Environmental Health. 1989;27:165-171.

Report of the Second Public Health Service AIDS Prevention and Control Conference. Public Health Reports, Vol. 103, Supplement No. 1 (Revised), 1988. (As an outside consultant to Neuropsychological Assessment and Performance Work Group).

Environmental cancer and heart and lung disease. Tenth report to Congress, 1987/1988, Task Force on Environmental Cancer and Heart and Lung Disease. (As a member of the task force).

Bray RM, Peterson MR. Alcohol and drug use among military personnel - 1988 worldwide survey results [Abstract]. 116th Annual Meeting of the American Public Health Association. Boston, Nov. 16, 1988.

Peterson MR, Bircher J. Trends in human immunodeficiency virus infection among civilian applicants for military service - United States, October 1985 - March 1988. Morbidity and Mortality Weekly Report. 1988;37(44):677-679.

Peterson MR, et. al. Prevalence of human immunodeficiency virus antibody in U.S. active duty military personnel. Morbidity and Mortality Weekly Report. 1988;37(30):457.

McNeil JG, Wann F, Burke D, Brundage J, Peterson MR. A direct estimation of the rate of new infections in U.S. Army personnel [Abstract]. IV International Conference on AIDS, book 2. Stockholm, June 12-16, 1988:221.

Wolfe WH, Michalek JE, Miner JC, Peterson MR. Serum 2,3,7,8-tetrachlorodibenzo-p-dioxin level in Air Force health study participants - preliminary report. Morbidity and Mortality Weekly Report. 1988;37(20).

Brundage, JF, Burke DS, Gardner LI, Visitine R, Peterson MR, Redfield R. HIV infection among young adults in the New York city area: prevalence and incidence estimates based on antibody screening among civilian applicants for military service. New York State Journal of Medicine. 1988;88(5):232-235.

Wolfe WH, Michalek JE, Miner JC, Peterson MR. Air Force Health Study (An epidemiologic investigation of health effects in Air Force personnel following exposure to herbicides). First follow-up examination results (January 1985 to September 1987), prepared for the USAF Surgeon General, 1987.

Peterson MR, Levy BS. Misconceptions about possibly rabid animals that have bitten humans. Minnesota Medicine. 1979;62(4):266-268.

Peterson MR. Strep infection - Your pet may have it too. USAF Medical Service Digest. 1976;25(1):21.

Recommendations of the Advisory Committee on Immunization Practices (ACIP), U.S. Public Health Service, Centers for Disease Control and Prevention (Department of Defense Liaison):

The role of BCG vaccine in the prevention and control of tuberculosis in the United States. Morbidity and Mortality Weekly Report. 1996;45(RR-4):1-18.

Prevention and control of influenza: Part I, Vaccines, Morbidity and Mortality Weekly Report. 1993;42(RR-6):1-14.

Use of vaccines and immune globulins in persons with altered immunocompetence. Morbidity and Mortality Weekly Report. 1993;42(RR-4):1-18.

Inactivated Japanese encephalitis virus vaccine. Morbidity and Mortality Weekly Report. 1993;42(RR-1):1-15.

Pertussis vaccination: acellular pertussis vaccine for the fourth and fifth doses of the DTP series - update to supplementary ACIP statement. Morbidity and Mortality Weekly Report. 1992;41 RR-15):1-5.

Prevention and control of influenza. Morbidity and Mortality Weekly Report. 1992;41(RR-9):1-17.

Pertussis vaccination: acellular pertussis vaccine for reinforcing and booster use - supplementary ACIP statement. Morbidity and Mortality Weekly Report. 1992;41(RR-1):1-10.

Vaccinia (smallpox) vaccine. Morbidity and Mortality Weekly Report. 1991;40(RR-14):1-10.

Hepatitis B virus: a comprehensive strategy for eliminating transmission in the United States through universal childhood vaccination. Morbidity and Mortality Weekly Report. 1991;40(RR-13):1-25.

Update on adult immunization. Morbidity and Mortality Weekly Report. 1991;40(RR-12):1-94.

Haemophilus b conjugate vaccines for prevention of Haemophilus influenzae type b disease among infants and children two months of age and older. Morbidity and Mortality Weekly Report. 1991;40(RR-1):1-7.

Reports of the National Commission on AIDS:

Behavioral and Social Sciences and the HIV/AIDS Epidemic. July, 1993.

AIDS: An Expanding American Tragedy. The Final Report of the National Commission on AIDS. June, 1993.

HIV/AIDS: A Challenge for the Workplace. June, 1993.

Preventing HIV Transmission in Health Care Settings. July, 1992.

Housing and the HIV Epidemic - Recommendations for Action. July, 1992.

The HIV/AIDS Epidemic in Puerto Rico. June, 1992.

Americans Living with AIDS. September 25, 1991.

The Twin Epidemics of Substance Use and HIV. July 1991.

HIV Disease in Correctional Facilities. March, 1991.

Annual Report to the President and Congress. August, 1990.

Research, the Workforce and the HIV Epidemic in Rural American. August 21, 1990.

Leadership, Legislation, and Regulation. April 24, 1990.

Summary on Federal, State, and Local Responsibilities. March 15, 1990.

Failure of the U.S. Health Care System to Deal with the HIV Epidemic. December 5, 1989.

Donald Lee Noah, DVM, MPH
Lt Colonel (Select), United States Air Force
Diplomate, American College of Veterinary Preventive Medicine

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EDUCATION

Epidemic Intelligence Service (EIS)

US Centers for Disease Control and Prevention, Atlanta, Georgia, 1996

Master of Public Health (MPH)

University of Minnesota, Minneapolis, Minnesota, 1994

Doctor of Veterinary Medicine (DVM)

The Ohio State University, Columbus, Ohio, 1985

Bachelor of Science (BS, Agricultural Engineering)

The United States Air Force Academy, Colorado Springs, Colorado
The Ohio State University, Columbus, Ohio, 1984

EXPERIENCE

1999 to Present – Office of the Surgeon General, Headquarters, USAF, Bolling AFB, DC

Consultant on Biological Warfare Counterproliferation

Advises USAF Surgeon General on issues relating to weapons of mass destruction.

1996 to 1999 - Armed Forces Medical Intelligence Center, Ft Detrick, MD

Infectious Diseases Epidemiologist

Joint duty assignment at DoD level. Directs comprehensive infectious disease intelligence programs in support of operational military forces, national policymakers, and multi-billion dollar DoD research programs. Produces unique infectious disease risk assessments essential for successful worldwide contingency, humanitarian, and planning operations. Infectious disease consultant to USAF Chief of Public Health on biological warfare. Contributes to interagency publications, national intelligence estimates, and national intelligence collection and production requirements. Routine guest lecturer on epidemiology at the Uniformed Services University of Health

Sciences, Bethesda, Maryland and the Joint Military Intelligence College, Washington DC. Primary USAF infectious disease liaison to the World Health organization and the US Centers for Disease Control and Prevention.

1994 to 1996 - Centers for Disease Control and Prevention, Atlanta, GA

Epidemic Intelligence Service Officer

Headquartered at the national Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia, the Epidemic Intelligence Service (EIS) is a unique, 2-year, post-graduate program of service and on-the-job training for health professionals interested in the practice of epidemiology. EIS officers develop skills in applied epidemiology to address vital public health issues, investigate epidemics, conduct epidemiologic studies, and present and publish their work. I was the first US military officer to participate in the program on active duty and gained experience in viral and rickettsial diseases. Epidemic investigations of note included human rabies cases, Ebola Zaire in Kikwit, Zaire, human Bartonellosis, and clusters of illness among Persian Gulf veterans.

1991 to 1993 - USAF School of Aerospace Medicine, Brooks AFB, TX

Master Instructor, Public Health

Developed and directed curricula for food technology education. Responsible for content, quality and measurement of food safety topics in six department courses graduating over 500 students annually. Advised HQ USAF/SG on food safety policy and issues. Course supervisor for Military Public Health Officer Intermediate Training Course. Developed, coordinated, and directed course content addressing contemporary issues in public and occupational health. Instructor in seven school courses for students ranging from entry-level airmen to senior physicians. Represented HQ USAF/SG on DoD process action team to resolve multi-service food inspection issues.

1988 to 1991 - 313th Medical Group/SGPM, Kadena Air Base, Japan

Associate Chief, Environmental Health

Responsible for the management of communicable disease, occupational illness, food safety, facility sanitation, and medical intelligence at the largest Environmental Health office in the USAF. Conducted island-wide public health programs for over 30,000 military personnel and dependents. Directed health surveillance, medical monitoring, and occupational health education for over 3,000 employees in 200 hazardous work environments. Supervised over 30 people and served as clinic Vehicle Control Officer, Medical Intelligence Officer, Personnel Decontamination Team Chief, and Commander, Base Honor Guard.

1985 to 1988 - Ark Veterinary Hospital, Wooster, OH

Veterinary Practitioner

General veterinary practitioner in mixed (mostly food animal) private practice in the #1 agricultural county in Ohio. Progressive preventive medicine and

food animal environment consultation programs were emphasized as well as routine treatment efforts. Constructed new hospital with indoor large and small animal surgeries and holding facilities. Ambulatory care was delivered on a 24-hour basis via modern veterinary-equipped trucks. Routine guest lecturer on basic animal medicine and husbandry at the Wooster campus of The Ohio State University.

1980 to 1988 - 121st Tactical Hospital, Rickenbacker ANGB, OH

Hospital Administrator

Originally enlisted as a Senior Airmen in the Transportation Squadron and later transferred to the Hospital unit. Served as Veterinary and Environmental Health Technicians and rose to rank of Staff Sergeant before taking a commission as a Second Lieutenant. Supervised all facets of the Medical Squadron Section. Responsible to the Hospital Commander for all administrative and operational readiness planning, training, and maintenance factors necessary to perform both peacetime and wartime missions. Also served as Medical Readiness and Mobility Officer, medical representative to the base Survival Recovery Center, and member of Hospital Executive Management Council.

PROFESSIONAL RECOGNITIONS

1996 recipient of the Dr. Daniel E. Salmon Federal Veterinarian of the Year Award

1996 recipient of the US Department of Health and Human Services Secretary's Award for Distinguished Service and two awards from CDC and ATSDR for research accomplishments

1995 Brevet de Participation - Presented in grateful recognition by the Republic of Zaire for efforts in the control of the Ebola outbreak in Kikwit

USAF School of Aerospace Medicine Company Grade Officer of the Quarter, 1st Quarter, 1993

Kadena Air Base Company Grade Officer of the Quarter, 1st Quarter, 1991. Selected from 623 eligibles

313th Medical Group Company Grade Officer of the Quarter, 1st Quarter, 1991

PACAF (1991) and Human Systems Center (1993) Nominee for Dr. Daniel E. Salmon Federal Veterinarian of the Year Award

Selectee for 1991-92 edition of Who's Who in Veterinary Science and Medicine

Military decorations include Defense Meritorious Service Medal, Air Force Commendation Medal, Public Health Service Commendation Medal, Air Force Achievement Medal, Army Achievement Medal, Joint Service Achievement Medal, Air Force Recognition Ribbon, Air Reserve Forces Meritorious Service Medal, Overseas Long Tour Ribbon, and Small Arms Expert Marksmanship Award

ORGANIZATIONAL POSITIONS

Member, American Veterinary Medical Association's Council on Public Health and Regulatory Veterinary Medicine

DoD Liaison to CDC Bioterrorism Preparedness and Response Activity

USAF Medical Service Liaison to World Health Organization

USAF Medical Service Liaison to US Centers for Disease Control and Prevention

Adjunct Faculty, The Joint Medical Intelligence College

President, Kadena Air Base Company Grade Officer's Council, 1990-91

Commander, Kadena Air Base Honor Guard, 1990-91

Vice-President, Kadena Air Base Company Grade Officer's Council, 1989-90

Chairman, Ohio Veterinary Medical Association Public Health Committee, 1987

PUBLICATIONS

Roels TH, Bloom AS, Buffington J, Muhungu GL, MacKenzie WR, Khan AS, Ndambi R, Noah DL, Rolka HR, Peters CJ, Ksiazek TG. Ebola hemorrhagic fever, Kikwit, Democratic Republic of the Congo, 1995: risk factors for patients without a reported Exposure. *J Inf Dis* 1999;179(Suppl):S92-7.

Fukuda K, Nisenbaum R, Stewart G, Thompson W, Robin L, Washko R, Noah D, Barrett D, Randall B, Herwaldt B, Mawle A, Reeves W. Chronic multisymptom illness Affecting Air Force veterans of the Gulf War. *JAMA* 1998;280:981-988.

Noah DL, Drenzek CL, Smith JS, Krebs JW, Orciari L, Shaddock J, Sanderlin D, Whitfield S, Fekadu M, Olson JG, Rupprecht CE, Childs JE. The epidemiology of human rabies in the United States, 1980 to 1996. *Ann Intern Med* 1998;128:922-30.

Noah DL, Sobel AL, Ostroff SM, Kildew JA. Biological Warfare Training:

Infectious Disease Outbreak Differentiation Criteria. *Milit Med* 1998;163:198-201.

Noah DL, Kramer CM, Verbsky MP, Rooney JA, Smith KA, Childs JE. Survey of veterinary professionals and other veterinary conference attendees for antibodies to *Bartonella henselae* and *B quintana*. *J Am Vet Med Assoc* 1997;210:342-4.

Williams RJ, Cox NJ, Regnery HL, Noah DL, Khan AS, Miller JM, Copley GB, Ice, JS, Wright JA. Meeting the challenge of emerging pathogens: the role of the United States Air Force in global influenza surveillance. *Milit Med* 1997;162:82-6.

Krebs JW, Strine TW, Smith JF, Noah DL, Rupprecht CE, Childs JE. Rabies surveillance in the United States during 1995. *J Am Vet Med Assoc* 1996;209:2031-44.

Noah DL, Smith MG, Gotthardt JC, Krebs JW, Green D, Childs JE. Mass human exposure to rabies in New Hampshire: assessment of exposures and adverse reactions. *Am J Public Health* 1996;86:1149-51.

Noah DL, Bresee JS, Gorenshek MJ, Rooney JA, Cresanta JL, Regnery RL, Wong J, Del Toro J, Olson JG, Childs JE. Cluster of five children with acute encephalopathy associated with cat-scratch disease in South Florida. *Pediatr Infect Dis J* 1995;14:866-9.

Roels TH, Bloom AS, Buffington J, Muhungu GL, MacKenzie WR, Khan AS, Ndambi R, Noah DL, Rolka HR, Peters CJ, Ksiazek TG. Ebola Hemorrhagic Fever, Kikwit, Zaire, 1995: Risk factors for patients without reported exposure during initial screening. Accepted by *Journal of Infectious Diseases*.

BOOK CHAPTERS

Childs J, Noah D, Rupprecht C. 1998. Rabies. In Gorbach, Bartlett, Blacklow (eds). *Infectious Diseases*, 2nd Edition, W.B. Saunders Company, Philadelphia, pp. 1545-59.

MMWR PUBLICATIONS

Human rabies - Florida, 1996. August 23, 1996/Vol. 45/No. 33.

Human rabies - California, 1995. May 3, 1996/Vol. 45/No. 17.

Human rabies - Washington State, 1995. September 1, 1995/Vol. 44/No. 34.

Mass treatment of humans exposed to rabies - New Hampshire, 1994. July 7, 1995/Vol. 44/No. 26.

Human rabies - Alabama, Tennessee, and Texas, 1994. April 14, 1995/Vol. 44/No. 14.

Human rabies - West Virginia, 1994. February 10, 1995/Vol. 44/No. 5.

Encephalitis associated with cat scratch disease - Broward and Palm Beach counties, Florida, 1994. December 16, 1994/Vol. 43/No. 49.

Human rabies - Miami, 1994. October 28, 1994/Vol. 43/No. 42.

PRESENTATIONS

Medical Intelligence—Natural and Intentional Diseases. Industrial College of the Armed Forces. Fort Belvoir, DC, 7 April 99.

Biological Warfare/Terrorism. Air Command and Staff College. Maxwell Air Force Base, Alabama, 14 December 98.

Health threats in Eastern Europe/Central Asia. USAF Special Operations School. Hurlburt Field, Florida, 15 September 98.

Emerging infectious diseases and some thoughts on the future. Founder's Lecture to the American College of Veterinary Preventive Medicine. Baltimore, Maryland, 27 July 98.

Global health threats. USAF Senior Public Health Symposium. San Antonio, Texas, 14 July 98.

Epidemiology primer. USAF Prevention Conference. New Orleans, Louisiana, 12 March 98.

Global NBC threats - meeting the challenge, evidence-based decision-making, intentional vs. natural outbreak differentiation. Association of Military Surgeons of the United States annual meeting. Nashville, Tennessee, 16-21 November 97.

Worldwide food risks. USAF Senior Public Health Symposium. San Antonio, Texas, 11-16 August 97.

The Preventive medicine plan--information sources, resources, and approach. Uniformed Services University of the Health Sciences. Bethesda, Maryland, 7 July 97.

Health threats of war and peace, epidemiology. USAF Prevention Conference. Dallas, Texas, 11-13 March 97.

Military operations other than war, rapid health assessments. USAF Operational Epidemiology Course. San Antonio, Texas, January 97.

Ebola hemorrhagic fever. National Environmental Health Association. Chicago, Illinois, 1 July 96.

Ebola hemorrhagic fever, cat scratch disease, emerging infectious diseases. Ohio Veterinary Medical Association's annual meeting. Columbus, Ohio, 22-25 February 96.

Cat scratch disease, hantavirus, Ebola hemorrhagic fever. Minnesota Veterinary Medical Association's Annual Meeting. Minneapolis, Minnesota, 1-3 February 96.

Rabies, Ebola hemorrhagic fever. USAF Intermediate Officer Symposium. San Antonio, Texas, November 95.

Rabies, Ebola hemorrhagic fever. Association of Military Surgeons of the US annual meeting. Anaheim, California, 31 October 95.

Ebola hemorrhagic fever, Zaire, 1995. Epidemiology Grand Rounds. CDC, 15 August 95.

Ebola hemorrhagic fever, Zaire, 1995. Requested to brief the USAF Surgeon General (O-9), USAF Chief of Staff (O-10), and US Secretary of Defense for Health Affairs on Ebola investigation and coordination of CDC/DoD efforts. Washington DC, August 95.

Practitioner role in disability and death from zoonotic diseases, rabies, cat scratch disease, Ebola hemorrhagic fever. American Veterinary Medical Association's annual meeting. Pittsburgh, Pennsylvania, July 95.

Rabies update and EIS overview. USAF Senior Public Health Symposium. San Antonio, Texas, 25 May 95.

Cluster of acute encephalopathy associated with cat scratch disease in South Florida. Poster presentation, 1995 EIS Conference.

Rabies, cat scratch disease, assorted tickborne diseases, hantavirus, EIS overview, USAF public health. Ohio Veterinary Medical Association's annual meeting. Columbus, Ohio, 23-26 February 95.

Large-scale human exposure to animal rabies, New Hampshire, 1994. Rabies in the Americas, 1994 annual meeting. Ontario, Canada, 17 November 94.

Water rationing at Kadena Air Base. USAF Senior Public Health Symposium. San Antonio, Texas, 1991.

Hepatitis B update, wartime anesthesia. Okinawa Nurses Association. Kadena Air Base, Japan, 1990.

Communicable diseases of Okinawa. Ohio Veterinary Medical Association's annual meeting. Columbus, Ohio, February 1989.

PERSONAL DATA

Wife: Melissa Ann

Children: Caitlin Elizabeth, DOB 30 November 89
Donald Owen, DOB 17 July 91
Connor McKay, DOB 12 December 94

ABBREVIATED CURRICULUM VITAE

Peter B. Jahrling

8 July 1999

PRESENT POSITION:

Principal Scientific Advisor (Senior Research Scientist)
U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID), Fort Detrick, Frederick,
Maryland 21702-5011. Tel: 301-619-4608 FAX:-4625

EDUCATION:

1967-1972 Ph.D., Microbiology Cornell University Graduate School of Medical Sciences, New York,
New York.
1963-1967 A.B., Biology, Cornell University, Ithaca, New York.

MILITARY SERVICE:

Served as a Captain, Medical Service Corps, U.S. Army, as an immunologist assigned to USAMRIID,
Fort Detrick, Frederick, Maryland, 1972-1976; Honorable discharge.

FAMILY:

Wife - Daria Lynne Baldovin
Daughters - Yara Brynn, Bria Lynne, Kira Laine
Son - Jordan Blaine

RECENT PROFESSIONAL EXPERIENCE:

Nov 1992-present: Senior Research Scientist for Medical Defenses against Infectious Disease Threats.
USAMRIID, Fort Detrick, Frederick, MD. 21702

Responsibilities: Serves as an advisor to the Commander, USAMRIID, on matters pertaining to the development and coordination of research programs directed at disease prevention, treatment and surveillance of infectious disease threats, especially for high-hazard viral agents. Coordinates in-house activities with requests from Research Area Directors, and interacts with scientists throughout MRMC, academia, industry, and international agencies to accomplish the mission. Supervises professional staff and personally conducts research combining classical and molecular virology with immunology, pathology, and epidemiology to develop and utilize animal models for evaluating countermeasures, especially vaccines, against viral infectious disease and biological warfare threats.

RECENT CONSULTATIVE POSITIONS:

International Committee on Taxonomy of Viruses, Vertebrate Viruses Subcommittee, Chairman:
Filovirus Study Group, 1991-1996, member 1997 – present.

CDC/NIH Guest Editor for *Biosafety in Microbiological and Biomedical Laboratories*, 3rd and 4th editions. 1991-present.

National Research Council, Space Studies Board, Committee on Return of Biological Samples. June 1996-present.

Consultant to the National Academy of Sciences /Institute of Medicine. (Russian/U.S. Collaborative Program for Research and Monitoring of Pathogens of Global Importance). Nov 1996 - present.

Consultant to the World Health Organization, Ad Hoc Committee on Orthopoxvirus Infections.
November 1998 - present.

Head of the Center, WHO Collaborating Center for arbovirus and hemorrhagic fever reference and research, May 1996 - present.

Chairman, American Committee on Arthropod-borne Viruses, Subcommittee on Arbovirus Laboratory Safety (SALS), March 1999 – present.

Consultant to the National Research Council Committee on Planetary and Lunar Exploration (COMPLEX), July 1999 – present.

RECENT (since 1995) RELEVANT PULICATIONS (from a total of 136)

102. **Jahrling, P.B.** Filoviruses and arenaviruses. 1995. In Manual of Clinical Microbiology, 6th ed., Chap. 94, 1068-1081. (P. R. Murray, E.J. Baron, M.A. Pfaller, F.C. Tenover, R.H. Tenover, eds.). ASM Press, Washington, D.C.

103. **Jahrling, P.B.**, H. Dieter-Klenk, A. Sanchez, M.P. Kiley, C.J. Peters, R. Swanepoel. 1995. Filoviridae in: Virus Taxonomy. Classification and Nomenclature of Viruses. Sixth report of the International Committee on Taxonomy of Viruses, F.A. Murphy et al, eds. Archives of Virology/Supplement 10, 289-292.

112. **Jahrling, P.B.**, T.W. Geisbert, N.K. Jaax, M.A. Hanes, T.G. Ksiazek, and C.J. Peters. 1996. Experimental infection of cynomolgus macaques with Ebola-Reston Filoviruses from the 1989-1990 U.S. Epizootic. In: Schwarz, T.F., Siegl, G. (eds). Imported Virus Infections. Springer, Wien New York, pp 115-134. Archives of Virology [Suppl. 11]

113. **Jahrling, P.B.**, J. Geisbert, J.R. Swarengen. G.P. Jaax, T. Lewis, J.W. Huggins, J.J. Schmidt and J.W. Leduc, and C.J. Peters. 1996. Passive Immunization of Ebola Virus-Infected Cynomolgus Monkeys with Immunoglobulin from Hyperimmune Horses. In: Schwarz, T.F., Siegl, G. (eds). Imported Virus Infections. Springer, Wien New York, pp 135-140. Archives of Virology [Suppl. 11]

114. Peters, C.J., **P.B. Jahrling**, and A. Khan. 1996. Management of patients infected with high-hazard viruses. In: Schwarz, T.F., Siegl, G. (eds). Imported Virus Infections. Springer, Wien New York, pp 141-168. Archives of Virology [Suppl. 11]

115. Ibrahim, M.S., J.J. Esposito, **P.B. Jahrling**, and R.S. Lofts. 1997. The potential of 5' nuclease PCR for detecting a single-base polymorphism in *Orthopoxvirus*. Molecular and Cellular Probes 11: 143-147.

116. Franz, D.R., **P.B. Jahrling**, A.M. Friedlander, D.J. McClain, D.L. Hoover, W.R. Byrne, J.A. Pavlin, G.W. Christopher, E.M. Eitzen. 1997. Clinical recognition and management of patients exposed to biological warfare agents. JAMA 278: 399-411.

117. Gilligan, K.J., J.B. Geisbert, **P.B. Jahrling**, and K. Anderson. Assessment of Protective immunity conferred by recombinant vaccinia viruses to guinea pigs challenged with Ebola virus, in *Vaccines 97*. Brown, F., D. Burton, P. Doherty, J. Mekalanos, and E. Norrby, eds. Cold Spring Harbor Press, Cold Spring Harbor, NY. pp 87-92.

118. Hevey, M., D. Negley, J. Geisbert, **P. Jahrling**, and A. Schmaljohn. 1997. Recombinant Marburg virus glycoprotein subunit vaccine protects guinea pigs from lethal infection, in *Vaccines 97*. Brown, F., D. Burton, P. Doherty, J. Mekalanos, and E. Norrby, eds. Cold Spring Harbor Press, Cold Spring Harbor, NY. pp 93-98.

119. Pushko, P., M. Parker, J. Geisbert, D. Negley, A. Schmaljohn, **P.B. Jahrling**, A. Sanchez, J.F. Smith. 1997. Packaged RNA replicon of Venezuelan equine encephalitis virus (VEE) as a vaccine vector: Immunogenicity and protection studies with Ebola NP and GP genes, in *Vaccines 97*. Brown, F., D. Burton, P. Doherty, J. Mekalanos, and E. Norrby, eds. Cold Spring Harbor Press, Cold Spring Harbor, NY. pp 253-258.
120. **Jahrling, P.B.** 1997. Arenaviruses, Chapter 7 in: *Viral Infections of Humans*. Evans, A.S. and R.A. Kaslow, eds. Plenum Medical Book Company, New York, pp. 185-209.
121. Davis, K.J., A.O. Anderson, T.W. Geisbert, K.E. Steele, J.B. Geisbert, P. Vogel, B.M. Connolly, J.W. Huggins, **P.B. Jahrling**, and N.K. Jaax. 1997. Pathology of experimental Ebola virus infection in African green monkeys. Involvement of fibroblastic reticular cells. *Arch. Path. Lab. Med.* 121: 805-819.
122. Vogel, P., B. Connolly, D. Abplanalp, T.W. Geisbert, W.M. Kell, **P.B. Jahrling**, and N.K. Jaax. 1997. Pathology of experimental Ebola-Zaire (Mayinga) virus infection transmitted to guinea pigs by oral, conjunctival, and tonsillar routes. *Cell Vision* 4: 298-307.
123. Ibrahim, M.S., R.S. Lofts, **P.B. Jahrling**, E.A. Henchal, V.W. Weedn, and M.A. Northrup. 1998. Real-time microchip PCR for detecting single-base differences in viral and human DNA. *Analytical Chemistry* 70:2013-2017.
124. Liu, C.T., Z.M. Gou, **P.B. Jahrling**, and C.J. Peters. 1998. Significance of hemodynamic changes in four cardiac chambers of guinea pigs with Pichinde virus infection. *Pathophysiology* 5:91-98.
125. Hevey, M., D. Negley, J. Geisbert, **P. Jahrling**, A. Schmaljohn. 1997. Antigenicity and vaccine potential of Marburg virus glycoprotein expressed by baculovirus recombinants. *Virology* 239: 206-216.
126. Vanderzanden, I., M. Bray, D. Fuller, T. Roberts, D. Custer, K. Spik, **P. Jahrling**, J. Huggins, A. Schmaljohn, C. Schmaljohn. 1998. DNA vaccines expressing either the GP or NP genes of Ebola virus protect mice from lethal challenge. *Virology* 246:134-144.
127. **Jahrling, P.B.** 1997. Chapter 29. Viral hemorrhagic fevers in: *Textbook of Military Medicine. Part I. Medical Aspects of Chemical and Biological Warfare*. R. Zajtcuk, editor. Office of the Surgeon General, United States Army, Falls Church, VA. pp. 591-602.
128. **Jahrling, P.B.** and M.P. Kiley 1998. Arbovirus Safety Issues. In: *Rational Basis for Biocontainment Proceedings*. J.Y. Richmond, editor. American Biological Safety Association, Mundelein, IL. pp. 246-249.
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Biographical Sketch for Mark Deeing Animal Behavioral Consultant

Mark is a professional horse trainer and farrier originally from Salt Lake City, Utah, now living in Fort Collins, Colorado, where he currently works as an animal behavior consultant for Grandin Livestock Handling Systems. Temple Grandin is a Colorado State University Professor of Animal Science and a world-renowned Animal Behaviorist. In the seven years that Mark has worked for Dr. Grandin, he has co-authored several scientific papers and assisted the editor of *Genetics and the Behavior of Domestic Animals*.

Mark's primary work involves designing cattle working facilities and consulting with livestock producers on low stress handling. He also still trains and shoes horses, and raises warmblood horses. His favorite animals are dogs. Throughout his professional career, Mark has worked diligently to promote quality treatment of animals. This is the reason it was so difficult to get Mark to come and talk about his experience in killing large numbers of cattle.

COLONEL GERALD W. PARKER

Colonel Gerald W. Parker is Commander of the U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID) at Fort Detrick, Maryland. USAMRIID conducts research to develop vaccines, drugs and diagnostics to protect U.S. service members from biological warfare threats and endemic infectious diseases. A native of San Antonio, Texas, Colonel Parker holds a DVM degree from Texas A&M University and a PhD in physiology from Baylor College of Medicine.

Prior to assuming command of USAMRIID in March 1998, Colonel Parker served as the Research Area Director for the Medical Chemical and Biological Defense Research Program at the U.S. Army Medical Research and Materiel Command (USAMRMC). His other assignments have included Deputy Director of the Combat Casualty Care Program, USAMRMC, and special staff intern in the Office of the Assistant Surgeon General for Research and Development at the Pentagon.

Colonel Parker has served at USAMRIID in a variety of assignments throughout his 20-year Army career. He first came to the Institute in 1982 as an associate investigator. During a second tour starting in 1988, he served as a principal investigator, chief of the Department of Physiology and Pharmacology, and chief of the Toxinology Division. He returned in 1995 for a third tour, where he served as the Deputy Commander.

Colonel Parker's military awards include the Meritorious Service Medal with three oak leaf clusters, the Army Commendation Medal with two oak leaf clusters, and the Overseas Ribbon. He is a recipient of the Surgeon General's "A" Proficiency Designator in Physiology.

Colonel Parker resides in Middletown, Maryland, with his wife Denise and sons Jamison, Jeramie, and Jonathan.